(Absence of an entry indicates that the data were not estimated.)

Map symbol	Depth	 USDA texture	Classif:	ication	İİ	ments			e passi: umber		 Liquid	
and soil name			 Unified	 AASHTO	>10 inches	3-10 inches	 4	1 10	1 40	200	limit	ticity index
	In		 	 	Pct	Pct	' 	 	' 	' 	Pct	
AgB: Allegheny		 Loam Clay loam, loam	CL, CL-ML, ML		0 0						 15-35 25-45	
		 Silty clay, silty clay	CL, CL-ML, ML	7-6 A-4, A-6, A- 7-6	0 	 0 	 90-100 	 85-100 	 80-100 	 75-95 	 25-45 	 5-15
	49-66	loam Weathered bedrock	 	 		 	 	 	 	 		
AgC:			 	 		 	 		l			
Allegheny		Loam Clay loam, loam	CL-ML, ML, CL	A-4 A-6, A-7-6, A-4	0 0						15-35 25-45	
		silty clay	CL, CL-ML, ML	•	0	0	90-100	 85-100 	 80-100 	 75-95 	25-45	5-15
	49-66	loam Weathered bedrock	 	 		 	 	 	 	 		
CaC:	0 12	 	 MT_CM		1 0	 0-5	 05 100	 	 	1 25 05	110 20	
Clymer		Channery clay		A-4 A-2, A-4 	1 0						10-30 14-32 	
		Very channery clay loam		A-1, A-2, A- 3, A-4	0 	10-30 	30-75 	25-70 	20-60 	5-40 	14-32 	NP-9
		Weathered bedrock	 	 		 	 		 			
CDD:								 				
Clymer 	12-37	channery loam,	GC, GM, ML, SM	A-2, A-4 A-2, A-4 	0 0 						10-30 14-32 	
	37-52	loam Very channery			0	10-30	 30-75	 25-70	120-60	5-40	114-32	NP-9
	52-56	clay loam Weathered bedrock	GM, SM -	3, A-4 		 	 	 	 	 		
Dekalb		 Channery sandy loam	 CL-ML, GM, ML, SM	 A-1, A-2, A-4 	 0 	 0-30 	 50-90 	 45-80 	 40-75 	 20-55 	10-32	 NP-10
	3-20	Channery sandy loam, channery loam, very channery sandy	GC-GM, GM, ML, SM	A-1, A-2, A-4 	0	5-40 	50-85 	40-80 	40-75 	20-55 	15-32 	NP-9
	20-30	loam Channery sandy loam, flaggy sandy loam, very flaggy loamy sand, very channery	 GC, GM, SC, SM 	 A-1, A-2, A-4 	 	 10-50 	 45-85 	 25-75 	 20-65 	 15-40 	 15-32 	NP-9
		sandy loam Unweathered bedrock	 	 		 	 	 	 	 	 	
Other soils		 	 	 		 	 	 	 	 		
CDE: Clymer 	12-37	channery loam,	GC, GM, ML, SM	 A-2, A-4 A-2, A-4	 0 0						 10-30 14-32 	
	37-52	loam Channery loam, very channery loam, channery sandy loam	GM, SM	 A-1, A-2, A- 3, A-4	0	 10-30 	 30-75 	 25-70 	 20-60 	5-40 	114-32	NP-9

Print date: 01/15/2004

Table H.--Engineering Index Properties--Continued

	Depth	 USDA texture	Classif	ication		ments			e passinumber	-	 Liquid	
and soil name 		 	 Unified 		>10 inches	3-10 inches	 4	10	I 40	200	limit 	ticity index
		 Weathered bedrock	 	'	Pct	Pct 	 	 	 	 	Pct 	
 Dekalb		 Channery sandy loam	 CL-ML, GM, ML, SM	 A-1, A-2, A-4	0	0-30	 50-90	 45-80	 40-75	 20-55	10-32	 NP-10
	3-20	Channery sandy loam, channery loam, very channery sandy loam	GC-GM, GM, ML, SM	A-1, A-2, A-4 	0	5-40 	50-85 	40-80 	40-75 	20-55 	15-32 	NP-9
	20-30	Very channery	SM	A-1, A-2, A-4 	0	 10-50 	45-85 	 25-75 	 20-65 	15-40 	15-32 	 NP-9
		Unweathered bedrock	 			 	 	 	 	 		
Other soils						 		 	 	 		
CDF: Clymer	12-37	Channery loam Sandy loam, channery loam, channery clay	GC, GM, ML, SM		0						 10-30 14-32 	
		Channery loam, very channery loam, channery	GM, SM	A-1, A-2, A- 3, A-4	0	 10-30 	30-75 	 25-70 	 20-60 	5-40 	14-32	NP-9
	52-56	sandy loam Weathered bedrock	 			 	 	 	 	 		
Dekalb	0-3	Channery sandy		A-1, A-2, A-4	0	0-30	50-90	45-80	40-75	20-55	10-32	NP-10
		Very channery sandy loam,	ML, SM	A-1, A-2, A-4	0	 5-40 	 50-85 	 40-80 	 40-75 	 20-55 	15-32	 NP-9
	20-30	channery loam Very channery sandy loam, flaggy sandy loam, very flaggy loamy sand	GC, GM, SC, SM	A-1, A-2, A-4	0	 10-50 	 45-85 	 25-75 	 20-65 	 15-40 	 15-32 	 NP-9
		Unweathered bedrock	 			 		 	 	 		
Other soils		 	 			 	 	 	 	 		
CoB: Coolville	7-22 22-47	Silty clay loam Clay, silty clay, silty	CL, ML	A-4, A-6	0 0 0	0	95-100	85-100	80-100	75-95	 24-40 35-52 45-65	10-25
	47-60	clay loam Silty clay, channery silty clay loam,	 CH, CL 		0	 0-5 	 95-100 	 60-100 	 55-100 	 50-95 	 45-65 	 20-36
		silty clay loam Weathered bedrock				 		 	 	 	 	
CoC: Coolville	7-22 22-47	Silty clay loam Clay, silty			0 0 0	0	95-100	85-100	80-100	75-95	 24-40 35-62 45-65	12-25
	47-60	clay loam	 CH, CL 	A-7	0	 0-5 	 95-100 	 60-100 	 55-100 	 50-95 	 45-65 	 20-36

Table H.--Engineering Index Properties--Continued

Map symbol	Depth	 USDA texture	Classif	ication	Fragm			rcentage sieve n	e passin	-	 Liquid	
and soil name 		 	 Unified	AASHTO	>10 inches		 4	10	40	200	limit 	ticity index
		clay loam, silty clay loam Weathered bedrock		 	Pct	Pct		 	 	 	Pct	
CrC3: Coolville	7-22 22-47	clay, silty		A-4, A-6 A-6, A-7 A-7	0 0 0 0	0	95-100	85-100	80-100	75-95	 25-50 35-55 45-65	110-25
	47-60	channery silty clay loam, silty clay	CH, CL	 A-7 	0 0 	0-5	 95-100 	 60-100 	 55-100 	 50-95 	 45-65 	 20-36
	60-64	loam Weathered bedrock		 			 	 	 	 	 	
Ct: Cotaco	0-14		CL-ML, ML, SC-SM, SM	 A-4	0	0-5	 80-100	 75-95	 55-85	 35-80	15-30	 NP-7
	14-60	Clay loam, loam		A-1-b, A-2, A-4, A-6	0	0-10	 85-100 	 85-95 	 40-90 	 20-80 	15-35	NP-15
Melvin			 				 	 	 	 		
Dm: Dumps		 			 			 	 	i 		
FL: Fluvaquents			 		 		 	 	 	 		
Melvin		 	 		 		 	 	 	 		
GlC: Gilpin	11-30	 Silt loam Channery loam, channery silt loam, silty	CL, CL-ML,	 A-4, A-6 A-2, A-4, A-6							 20-40 20-40 	
	30-35	clay loam Very channery silt loam, very channery silty clay		A-1, A-2, A- 4, A-6 	0 0 	0-35	 25-55 	 20-50 	 15-45 	 15-40 	 20-40 	 4-15
		loam Unweathered bedrock			 		 	 	 	 		
GlD: Gilpin	11-30	 Silt loam Channery loam, channery silt loam, silty		A-4, A-6 A-2, A-4, A-6							 20-40 20-40 	
	30-35	clay loam Very channery silt loam, very channery silty clay		 A-1, A-2, A- 4, A-6		0-35	 25-55 	 20-50 	 15-45 	 15-40 	 20-40 	 4-15
	35-39	loam Unweathered bedrock					 	 	 	 	 	
GlE: Gilpin	11-30	Channery loam, channery silt loam, silty		 A-4, A-6 A-2, A-4, A-6							 20-40 20-40 	
	30-35	clay loam Very channery silt loam,	 GC, GC-GM 	 A-1, A-2, A- 4, A-6	 0 	0-35	 25-55 	 20-50 	 15-45 	 15-40 	 20-40 	 4-15

Table H.--Engineering Index Properties--Continued

Map symbol	Depth	 USDA texture	Classif	cation		Fragm				e passi: umber	_	 Liquid	
and soil name 		 	 Unified 	 AASH 	TO	>10 inches		 4	10 	I 40	200 	limit 	ticity index
i	In	very channery		 		Pct	Pct	 	 	i I	 	Pct	
i		silty clay	 	 					 	 	 		
į	35-39	Unweathered bedrock	 	 									
GpC:		1	 	 				 	 	 	 		
Gilpin		Silt loam Channery loam,		A-4, A-		0 1				70-85 35-85			4-15 4-15
į		channery silt loam, silty		. , 	,			 	 	 	 	 	
i		clay loam Very channery	 GC, GC-GM	 A-1, A-	2, A-	i i	0-35	 25-55	 20-50	 15-45	 15-40	120-40	 4-15
i		silt loam, very channery	I	4, A-6				 	 	i I	 	i I	
i		silty clay		 				 	 	 	 	i I	
i	35-39	Unweathered bedrock	 -	 		 		 	 		 	i	
Upshur	0-4	İ	 CL, CL-ML, ML	 A-4, A-	6	i i	0	 95-100	 95-100	 85-100	 65-90	 25-55	 5-22
İ				A-7		0 1	0	95-100 	95-100 	90-100 	85-100 	45-70 	20-40
İ	28-36	Silty clay	CH, CL, MH,	A-6, A-	7	0 1	0	80-100 	65-100 	60-100 	55-95 	35-55 	11-25
İ		clay, clay Weathered	 	 				 			 		
		bedrock	 	 				l I	 	 	 	 	
Other soils		 	 	 	-			 	 	 	 		
<pre>GpD:</pre>	0-11	 Silt loam	 CL, CL-ML	 A-4, A-	6	0	0-5	 80-95	 75-90	 70-85	 65-80	 20-40	 4-15
 		Channery loam, channery silt		A-2, A-	4, A-6	0	0-30	50-95 	45-90 	35-85 	30-80 	20-40 	4-15
 		loam, silty clay loam	 	 				 	 	 	 	 	
	30-35	Very channery		A-1, A- 4, A-6		0	0-35	25-55 	20-50 	15-45 	15-40 	20-40 	4-15
 		very channery silty clay	 	 				 	 	 	 	 	
 	35-39	loam Unweathered	 	 		 		 	 	 	 		
l I		bedrock 	 	 		 		 	 	 	 	 	
Upshur				A-4, A- A-7	6	0						25-60 45-70	
 		clay Silty clay	 CH, CL, MH,	 A-6, A-	7	0	0	 80-100	 65-100	 60-100	 55-95	 35-55	 11-25
 		loam, silty clay, clay	ML 	 				 	 	 	 	 	
 	36-67	Weathered bedrock		 				 	 	 	 		
Other soils				 	_			 	 		 		
GRE:		1		 				 	 	 	 	 	
Gilpin	11-30	Channery loam,	CL, CL-ML,	A-4, A- A-2, A-		0				70-85 35-85			4-15 4-15
 		channery silt loam, silty	GC, SC 	 				 	 	 	 	 	
 		clay loam Very channery		 A-1, A-		0 1	0-35	 25-55	 20-50	 15-45	 15-40	120-40	 4-15
 		silt loam, very channery		4, A-6				 	 	 	 	1	
		silty clay loam	 	 				 	 	 	 	 	
 	35-39	Unweathered bedrock	 	 									
Upshur			 CL, CL-ML, ML		6	0						125-60	
 				A-7 		0	0	95-100 	95-100 	90-100 	85-100 	45-70 	20-40

Table H.--Engineering Index Properties--Continued

Map symbol	Depth	 USDA texture	Classif	fication	l	ments		rcentage sieve n	e passinumber	_	 Liquid	
and soil name			 Unified	•	>10 inches		4	1 10	1 40	200	limit	ticity index
			 CH, CL, MH, ML		 Pct 0 	Pct 0 0	 80-100 	 65-100 	 60-100 	 55-95 	Pct 35-55 	 11-25
	36-67	Weathered bedrock	 	 	 	 		 				
Other soils												
GRF: Gilpin	11-30	 Silt loam Channery loam, channery silt loam, silty clay loam		 A-4, A-6 A-2, A-4, A-6	 0 0 1		 80-95 50-95 				 20-40 20-40 	 4-15 4-15
	30-35	Clay loam Very channery silt loam, very channery silty clay loam	l	A-1, A-2, A- 4, A-6	 0 	0-35 	 25-55 	 20-50 	 15-45 	15-40 	120-40	4-15
		Unweathered bedrock	 	 		 		 				
Other soils												
Upshur	4-28	Silty clay,		A-4, A-6 A-7	0						25-60 45-70	
	28-36		 CH, CL, MH, ML	 A-6, A-7	 0	 0	 80-100	 65-100	 60-100	 55-95	35-55	11-25
	36-67	clay, clay Weathered bedrock	ME 		 	 	 	 	 	 	 	
GsC3: Gilpin	11-30	Channery loam, channery silt loam, silty		 A-4, A-6 A-2, A-4, A-6	0 0		 80-95 50-95 					 4-15 4-15
	30-35	clay loam Very channery silt loam, very channery silty clay loam		A-1, A-2, A- 4, A-6	 0 	 0-35 	 25-55 	 20-50 	 15-45 	 15-40 	 20-40 	 4-15
	35-39	Unweathered bedrock	 		 	 	 	 	 	 		
Upshur	4-28		CH, CL	 A-6, A-7 A-7	 0 0						 35-60 45-70	
	28-36		 CH, CL, MH, ML	 A-7, A-6	 0 	 0 	 80-100		 60-100		 35-55	 11-25
		clay, clay Weathered bedrock			 	 	 	 	 	 	 	
Other soils			 		 	 	 	 	 	 		
GsD3: Gilpin	11-30	Channery loam, channery silt loam, silty		 A-4, A-6 A-2, A-4, A-6	 0 0						 20-40 20-40 	
	30-35	clay loam Very channery silt loam, very channery silty clay	l	 A-1, A-2, A- 4, A-6	 0 	 0-35 	 25-55 	 20-50 	 15-45 	 15-40 	 20-40 	 4-15
	35-39	loam Unweathered bedrock	 	 	 	 	 	 	 	 	 	

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	 USDA texture 	Classif 			Fragr >10	ments 			e passin umber	-	 Liquid limit	
		 	Unified	AASH	TO	linches		4	10	40	200		index
	In	 		i		Pct	Pct	i i	 	i i	 	Pct	
 Upshur 	4-28	 Silty clay loam Silty clay, clay		 A-6, A- A-7	7	 0 0				 90-100 90-100			
 	28-36	Silty clay	CH, CL, MH,	A-6, A-	7	0 	 0 	 80-100 	 65-100 	 60-100 	 55-95 	 35-55 	 11-25
 	36-67	Weathered bedrock		<u> </u> 									
Other soils		 		 	-	 	 	 	 	 	 	 	
GuE3: Gilpin	0-11	 Silt loam	CL, CL-ML	 A-4, A-	6	 0	 0-5	 80-95	 75-90	 70-85	 65-80	 20-40	 4-15
	11-30	Channery loam, channery silt loam, silty	CL, CL-ML, GC, SC	A-2, A-						35-85 			
 	30-35	clay loam Very channery silt loam, very channery silty clay		 A-1, A- 4, A-6 		 0 	 0-35 	 25-55 	 20-50 	 15-45 	 15-40 	 20-40 	 4-15
 	35-39	loam Unweathered bedrock				 	 	 	 	 	 	 	
Other soils		 	 		_		 		 		 	 	
Upshur	4-28			A-6, A- A-7	7	0 0				90-100 90-100			
 	28-36		CH, CL, MH,	A-6, A-	7	0 	 0 	 80-100 	 65-100 	 60-100 	 55-95 	 35-55 	 11-25
		Weathered bedrock		 			 	 	 	 	 	 	
HaA: Hackers			ML, CL, CL-ML			0				 75-100			
 		Silt loam, clay loam, silty clay loam	 	 		0 	 	 	 	90-100 	 	 	l I
I I	60-64	Silty clay loam 	CL, ML, SC, SM	A-4, A-	6	0 	0 	85-100 	60-100 	55-95 	40-85 	20-40 	1-15
Melvin		 		 	-	 	 	 	 	 	 	 	
HaB: Hackers			 CL, CL-ML, ML			I I 0	l I 0			 75-100			
		Silt loam, clay loam, silty clay loam	CL, CL-ML, ML 	A-4, A-	6	0 	0 	90-100 	90-100 	90-100 	75-95 	15-60 	4-25
 	60-64	1	CL, ML, SC,	A-4, A-	6	 	 0 	 85-100 	 60-100 	 55-95 	 40-85 	20-40 	 1-15
KaA: Kanawha	0-9	 Fine sandy loam		 A-2, A-	4	I I 0	l 0	 80-100	 75-100	 45-85	 25-55	 15-25	 NP-5
 		Fine sandy	SC-SM, SM CL, ML, SC, SM	 A-2, A- 	4, A-6	 0 	 0 	 80-100 	 75-100 	 50-100 	 30-90 	 20-35 	 2-12
 	16-52		 CL, ML, SC, SM	 A-2, A-	4, A-6	 0 	 0 	 80-100 	 75-100 	 60-100 	 25-80 	 20-40 	 3-15
 	52-60	clay loam Fine sandy loam, gravelly fine sandy loam, sandy clay loam		 A-2, A- 	4, A-6	 0 	 0 	 60-100 	 55-100 	 40-95 	 20-60 	 20-35 	 2-12
Melvin				İ		ĺ							

Table H.--Engineering Index Properties--Continued

Map symbol	Depth	 USDA texture	Classif	icati	on			nents		rcentage sieve n		_	 Liquid	
and soil name		 	 Unified 	 A.	ASHTO		>10 inches		 4	10	1 40	200	limit 	ticity index
	In						Pct	Pct					Pct	
Kanawha	0-9	 Fine sandy loam 	 CL-ML, ML, SC-SM, SM	 A-2,	A-4		0	0	 80-100 	 75-100 	 45-85 	 25-55 	15-25	 NP-5
 		Fine sandy		A-2,	A-4,	A-6	0	0	80-100 	75-100 	50-100 	30-90 	20-35	2-12
 	16-52	Loam, clay loam	CL, ML, SC, SM	A-2,	A-4,	A-6	0	0	80-100 	75-100 	60-100 	25-80 	20-40	3-15 I
 			CL, ML, SC,	A-2, 	A-4,	A-6	0	0	60-100 	55-100 	40-95 	20-60 	20-35 	2-12
LaD: Laidig		 Channery sandy loam	 CL, GM, ML, SM	 A-4			0	0-5	 65-90	 50-80	 45-80	 35-70	15-30	 1-10
	9-45	Channery loam, very channery loam, channery	CL, ML, SC, SM	A-2,	A-4,	A-6	0	5-20	 70-95 	 50-90 	 40-80 	20-70 	15-40 	 2-18
 	45-82	sandy loam Very channery loam, channery sandy loam		 A-2, 	A-4,	A-6	0	5-20	 50-90 	 40-85 	 30-80 	 15-70 	 15-35 	 2-16
LaE: Laidig	0-9	 - Channerv sandv	ICI. GM. MI.	 A-4		İ	0	0-5	 65-90	 50-80	 45-80	 35-70	115-30	 1-10
	9-45		SM CL, ML, SC,	İ	A-4,	A-6	i		İ	I	l	İ	115-40	İ
 	45-82	loam Very channery loam, channery sandy loam	 CL-ML, GC,	 A-2, 	A-4,	A-6	0	5-20	 50-90 	 40-85 	 30-80 	 15-70 	 15-35 	 2-16
LdB:		 	 	 					 	 	 	 		
Laidig	0-9	_	CL, GM, ML, SM	A-4 			0	0-5	65-90 	50-80 	45-80 	35-70 	15-30 	1-10
 		Channery loam, channery sandy loam		A-2,	A-4,	A-6	0	5-20	70-95 	50-90 	40-80 	20-70 	15-40	2-18
 		Very channery loam, channery sandy loam		A-2,	A-4,	A-6	0	5-20	50-90 	40-85 	30-80 	15-70 	15-35 	2-16
Andover		 	 			İ			 	 	 	 		
LdC:	0-9	-	CL, GM, ML,	 A-4		İ	0	0-5	 65-90	 50-80	 45-80	35-70	15-30	1-10
		Channery loam, channery sandy	ML, SC, SM,	A-2,	A-4,	A-6	0	5-20	 70-95 	 50-90 	40-80 	20-70 	15-40	2-18
 		loam Very channery loam, channery sandy loam		A-2, 	A-4,	A-6	0	5-20	 50-90 	 40-85 	 30-80 	 15-70 	15-35 	 2-16
 Andover		 	 	 		 			 	 	 	 		
MgB: Monongahela	0-10			 A-4		İ	0	0-5	 90-100	 85-100	 75-100	 45-90	20-35	1-10
 		Silt loam, clay loam, gravelly		A-4,	A-6		0	0-15	 90-100 	 80-100 	 75-100 	 70-90 	120-60	 5-15
 			 CL, ML, SC, SM	 A-4, 	A-6	 	0	0-10	 80-100 	 60-100 	 55-95 	 45-95 	 20-40 	 3-15
 	60-64	Silt loam, clay loam	CL, ML, SC, SM	A-4,	A-6		0	0-20	75-100 	60-90 	60-85 	40-85 	20-40	1-15
Robertsville			 	 									i	

Table H.--Engineering Index Properties--Continued

Map symbol	Depth	 USDA texture	Classif	ication			ments		rcentag	e passi:	-	 Liquid	
and soil name		 	 Unified 	AASH		>10 inches	3-10 inches	 4	10	40	200	limit 	ticity index
	In			1	i	Pct	Pct	i	i	i	i	Pct	i
MgC: Monongahela	0-10	•	CL-ML, ML,	 A-4		0	0-5	 90-100	 85-100	 75-100	 45-90	20-35	1-10
		Silt loam, clay loam, gravelly		A-4, A-	6 	0	 0-15 	 90-100 	 80-100 	 75-100 	 70-90 	20-60 	 5-15
			 CL, ML, SC, SM	A-4, A-	6 1	0	 0-10 	 80-100 	 60-100 	 55-95 	 45-95 	120-40	 3-15
		Silt loam, clay	•	A-4, A-	6 į	0	0-20 	75-100 	60-100 	60-85 	40-85 	20-40	1-15
Mo:	7-44	Silt loam,	 CL, CL-ML, MI CL, CL-ML, MI 			0						 22-40 15-25	
	44-66	loam Fine sandy	 CL, CL-ML, ML, SC	 A-4, A-1 	 6	0	 0 	 80-100 	 70-100 	 55-100 	 35-80 	 10-20 	 3-16
Melvin		 	 		- -		 	 	 	 	 	 	
Qu: Quarries		 	 		- -		 	 	 	 	 	 	
Se: Senecaville		•	CL, CL-ML, MI			0						120-35	
		loam, silt loam	CL-ML, ML 	i I	 	0	 	 	 	 	 	25-60 	
		Silt loam, fine sandy loam, loam	CL, ML, SC, SM 	A-4, A-	6 	0	0-5 	90-100 	70-100 	65-95 	45-90 	20-40 	1-15
Melvin		 I	 		- i		 	 			 		
Sn: Sensabaugh	25-31		GC, SC-SM	A-4 A-4, A-1	 6 	0						 16-29 20-35 	
		Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year Year	SC, SC-SM 	A-2, A-4	4, A-6 	0	5-30 	 55-90 	 25-75 	 25-65 	 20-55 	20-36 	 6-15
Melvin		 	 	 	- -		 	 	 	 	 	 !	
Ty: Tyler	14-20	Silty clay	 ML CL 	A-4 A-4, A-1	 6, A-7	0	 0 0			 90-100 90-100 			4-10 8-20
			CL 	A-4, A-	6, A-7 	0	 0 	90-100 	85-100 	80-100 	65-95 	25-45 	8-20
Robertsville		 	 		- -		 	 	 	 	 	 	
UA: Udifluvents		 	 		-		 	 	 	 	 	 	
Melvin		 	 		- 		 	 	 	 	 	 	
UB: Udifluvents		 	 		- -		 	 	 	 	 		

Table H.--Engineering Index Properties--Continued

Map symbol	Depth	 USDA texture	Classif	ication		l	ments		rcentage sieve n			 Liquid	
and soil name		 	 Unified	AASHTO			3-10 inches	l	10	40	200	limit 	ticity index
	In	 	 			Pct	Pct	!	!	!	! !	Pct	<u> </u>
UC: Udorthents, smoothed	 	 	 	 		 	 	 	 	 	 	 	
Urban land		 	 			 	 	 	 	 	 	 	
Other soils			 			 	 	 	 	 	 		
UD: Udorthents	 	 	 	 		 	 	 	 	 	 	 	
Wet minesoil		 	 			 	 	 	 	 	 	 	
Ue: Urban land	 	 	 	 		 	 	 	 	 	 	 	
Uf: Urban land		 	 	 		 	 	 	 	 	 	 	
Fluvaquents		 	 			 	 	 	 	 	 	 	
Other soils			 			 	 	 	 	 	 	 	
Melvin		 	 			 	 	 	 	 	 		
Uk: Urban land	0-6	 Bedrock	 	 		 0	 	 	 	 	 	0-14	
Kanawha	0-9	 Fine sandy loam		A-2, A-4		0	0	 80-100	 75-100	 45-85	25-55	15-25	NP-5
		Fine sandy	SC-SM, SM CL, ML, SC, SM	 A-2, A-4,	A-6	 0 	 0 	 80-100 	 75-100 	 50-100 	 30-90 	 20-35 	2-12
		Loam, clay loam	 CL, ML, SC, SM	A-2, A-4,	A-6	0	0	80-100	75-100	 60-100	25-80	20-40	3-15
			CL, ML, SC,	 A-2, A-4, 	A-6	 0 	 0 	 60-100 	 55-100 	 40-95 	 20-60 	 20-35 	2-12
Melvin		 				 	 	 		 			
Other soils		 				 	 	 					
Ut: Urban land	0-6	 Bedrock	 	 		 0	 	 	 	 	 	0-14	
Tyler	14-20	Silty clay		A-4 A-4, A-6,	A-7	 0 0	0 0					30-40 25-45	
	20-60	loam	l	 A-4, A-6, 	A-7	 0 	 0 	 90-100 	 85-100 	 80-100 	 65-95 	 25-45 	 8-20
Other soils			 										
Robertsville			 										
VaB: Vandalia	4-41		CH, CL	 A-4, A-6, A-6, A-7	A-7	 0 0						 19-60 35-60 	
	41-72	silty clay	 CH, CL	 A-6, A-7 		 0 	 0-5 	 70-100 	 65-100 	 60-100 	 55-100 	 30-60 	 10-30

Table H.--Engineering Index Properties--Continued

Map symbol and soil name	Depth	 USDA texture	 	Classi	ficati	on		i	ments 3-10			e passi umber	_	 Liquid limit	
and soll name		 	 	Unified	A	ASHTO		/IU inches		 4	10	40	200		index
VaC:	In		i		-¦			Pct	Pct		'		¦ ———	Pct	
Vac: Vandalia 	4-41	Silt loam Channery silty clay	ML CH,	CL	A-4,	A-6, A-7	A-7	 0 0				70-95 65-90			
 	41-72	Channery silty clay loam, silty clay	CH, 	CL	A-6,	A-7		0 	0-5 	70-100 	65-100 	60-100 	55-100 	30-60 	10-30
VaD: Vandalia 	4-41		 ML CH, 	CL	 A-4, A-6,	A-6, A-7	A-7	 0 0				70-95 65-90 			
	41-72	Channery silty clay loam, silty clay	CH, 	CL	A-6,	A-7		0	0-5 	70-100 	65-100 	60-100 	55-100 	30-60 	10-30
VaE: Vandalia		 Silt loam Channery silty	 ML	CI	 A-4,	A-6,	A-7	 0 0				 70-95 65-90			
	41-72	clay Channery silty Clay			A-6,			0			ĺ	 60-100 	ĺ	ĺ	I
VdC3: Vandalia	4-41	Channery silty		CL		A-6, A-7	A-7	 0 0				 70-95 65-90			
 	41-72	clay Silty clay, channery silty clay loam	CH, CH,	CL	A-7,	A-6		0	 0-5 	 70-100 	 65-100 	 60-100 	 55-100 	 30-60 	 10-30
VdD3: Vandalia	4-41	 Silty clay loam Channery silty		CL		A-6, A-7	A-7	 0 0				 70-95 65-90			
 	41-72	clay Silty clay, channery silty clay loam 	 CH, 	CL	 A-6, 	A-7		 0 	 0-5 	 70-100 	 65-100 	 60-100 	 55-100 	 30-60 	 10-30
VdE3: Vandalia 	4-41	 Silty clay loam Channery silty clay		CL	 A-4, A-6,	A-6, A-7	A-7	 0 0				 70-95 65-90 			
 		Silty clay, channery silty clay loam	CH,	CL	A-6,	A-7		0	0-5 	70-100 	65-100 	60-100 	55-100 	30-60 	10-30
VeB: Vincent	13-49	Silty clay	 CL, CH, CH,		L A-4, A-6, A-6,	A-7		 0 0 0	0	100	95-100	 95-100 90-100 85-100	80-100	38-66	14-34
VeC: Vincent 	13-49	Silty clay	CL,		 L A-4, A-6,	A-7		 0 0 0	 0 0 0	100	95-100	 95-100 90-100 85-100	80-100	38-66	14-34
VnC3: Vincent	13-49		CL,	CL	L A-4, A-6,	A-7		 0 0	 0 0	100	95-100	 95-100 90-100 85-100	80-100	38-66	14-34
W: Water		 	 					 	 	 	 	 	 	 	